

B-200 (UC-12B) - LARC 06/14/13

Aircraft: [B-200 \(UC-12B\) - LARC](#) ([See full schedule](#))

Flight Number: DAWN 2013 R-1

Payload Configuration: NASA Langley's Doppler Aerosol Wind Lidar System (DAWN)

Nav Data Collected: No

Total Flight Time: 2.1 hours

Submitted by: Gregory L. Slover on 06/18/13

Flight Segments:

From:	KLFI	To:	KLFI
Start:	06/14/13 14:12 Z	Finish:	06/14/13 16:18 Z
Flight Time:	2.1 hours		
Log Number:	13B012	PI:	Michael Kavaya
Funding Source:	Bruce Fisher - NASA - SMD - ESD LARC Chief Engineer, Research Services Directorate		
Purpose of Flight:	Science		
Comments:	DAWN data flight #1 over VA Beach ocean lines. Dropped down to 5K for to collect data, but were skimming the scattered and broken clouds so chose to attempt Transit 1 below at 2K instead. Actual conditions were such that we needed a little lower than 2K to make it workable. Decision was made to go back to 5K and accept the lost data when overflying a cloud, all remaining lines were at 5K. On transit back, we attempted to overfly the Chesapeake Light Tower for data calibration but clouds fully obscured the water. The DAWN research system operated nominally. Weather over the work area was 75% scattered and 25% broken, with the overcast portion mostly in the east portion. Winds aloft were nominally from the North at about 30 kts giving about 10 deg of crab necessary to parallel track. There was a Navy GUNEX in place, so Giant Killer did not allow me past ATLIC, which prevented getting a 1-min lead to the point as requested by DAWN team, it is likely 95% of each line is intact. Transit lines were flown in the following order, 1-6-2-7-3-8-4-9-5-10-11-12.		

Flight Hour Summary:

	13B012
Flight Hours Approved in SOFRS	25
Total Used	23.9
Total Remaining	1.1

13B012 Flight Reports

Date	Flt #	Purpose of Flight	Duration	Running Total	Hours Remaining	Miles Flown
06/12/13	DAWN 2013 ICF#1	Check	3.1	3.1	21.9	
06/14/13	DAWN 2013 R-1	Science	2.1	5.2	19.8	
06/21/13	DAWN 2013 R-2	Science	2	7.2	17.8	
06/24/13	DAWN 2013 R-3	Science	2.4	9.6	15.4	
06/26/13	DAWN 2013 R-4	Science	2.3	11.9	13.1	
06/28/13	DAWN 2013 R-5	Science	2.5	14.4	10.6	
07/09/13	DAWN 2013 R-6	Science	3.2	17.6	7.4	
07/10/13	DAWN 2013 R-7	Science	2	19.6	5.4	
07/17/13	DAWN 2013 R-8	Science	2.3	21.9	3.1	

[07/23/13](#)

DAWN 2013
R-9

Science

2

23.9

1.1

Flight Reports began being entered into this system as of 2012 flights. If there were flights flown under an earlier log number the flight reports are not available online.

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